

WHAT IS CLAIMED IS:

1. A control unit for a vehicle having a self-diagnosis function for self-diagnosing a verification of a reception of
5 a signal concerning a switch based on various vehicle information data, comprising:
a function checker connected with said control unit for outputting a predetermined control signal into said control unit when said control unit receives a predetermined signal from the
10 various vehicle information data,
wherein said predetermined control signal causes said control unit to activate said self-diagnosis function to establish a self-diagnosis mode.
- 15 2. The control unit according to claim 1, wherein:
said control unit outputs a diagnosed result of the self-diagnosis mode as the vehicle information data to the function checker.
- 20 3. The control unit according to claim 1, wherein:
the function checker displays a diagnosed result of the self-diagnosis mode based on the received vehicle information data.
- 25 4. The control unit according to claim 2, wherein:
the function checker displays a diagnosed result of the self-diagnosis mode based on the received vehicle information

data.

5. The control unit according to claim 1, wherein:

5 said control unit outputs a diagnosed result of the
self-diagnosis mode as an actuating control signal for
controlling at least either one of a room lamp or an indicator
lamp.

6. The control unit according to claim 2, wherein:

10 said control unit outputs a diagnosed result of the
self-diagnosis mode as an actuating control signal for
controlling at least either one of a room lamp or an indicator
lamp.

15 7. A control system of a vehicle for self-diagnosing a
verification of a reception of signals from a plurality of
switches, comprising:

 a control unit provided with a self-diagnosis function
for verifying the reception of the signals from said switches;

20 a function checker connected with said control unit;

 a first communication line connecting said control unit
with a first switch to transmit a first signal issued from the
first switch to said control unit;

 a second communication line connecting said control unit
25 with a second switch to transmit a second signal issued from
the second switch to said control unit;

 a third communication line for said function checker to

catch the first signal from said first communication line; and

a fourth communication line for transmitting a pseudo signal of the second signal from said function checker to said control unit through said second communication line when said
5 function checker receives the first signal,

wherein said control unit activates the self-diagnosis function when receiving the pseudo signal of the second signal, so that the reception of signals from the plurality of switches can be verified.

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8. The control system according to claim 7, wherein:

said control unit outputs a diagnosed result of the self-diagnosis mode as an actuating control signal for controlling at least either one of a room lamp or an indicator
15 lamp.

9. The control system according to claim 7, wherein:

said plurality of switches are an ignition switch, a starter switch and a key interlock switch, and said first switch
20 is the ignition switch.

10. The control system according to claim 7, wherein:

said second switch is a door switch which needs no verification of a reception of a signal thereof.